

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/053317 A1

(51) International Patent Classification⁷: H04N 7/24

(72) Inventor; and

(21) International Application Number:
PCT/KR2004/003048

(75) Inventor/Applicant (for US only): LEE, Changho [KR/KR]; 5302, Shinhung-1-Dong, Sujeong-Ku, Sungnam City, Kyunggi-Do 461-161 (KR).

(22) International Filing Date:
24 November 2004 (24.11.2004)

(74) Agent: KIM, Sun Young; Korea Coal Center, 10th Floor, 80-6 Susong-dong, Chongro-ku, Seoul 110-727 (KR).

(25) Filing Language: Korean

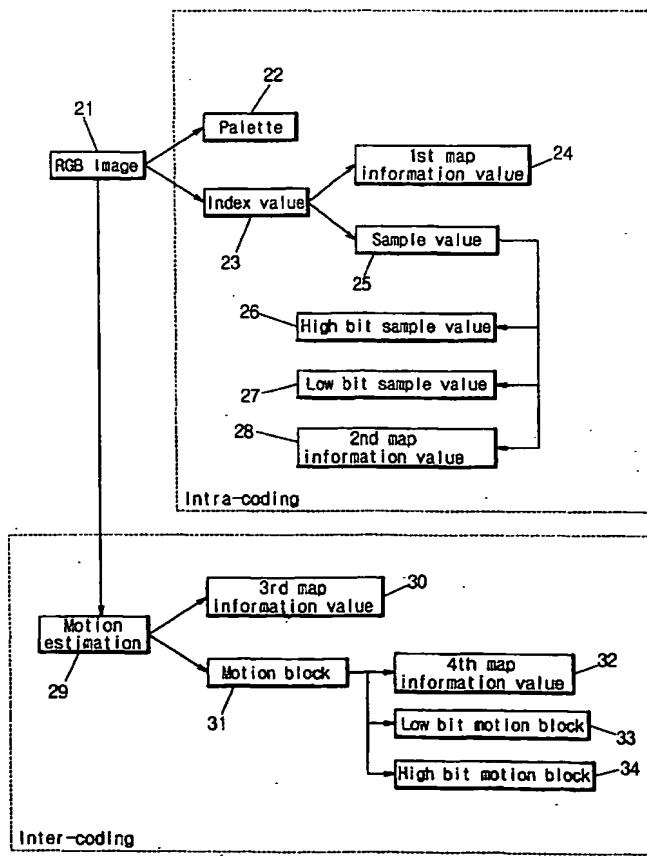
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: A METHOD OF COMPRESSING MOVING PICTURES FOR MOBILE DEVICES



(57) Abstract: Disclosed are technologies for compressing moving pictures. In particular, the present invention relates to a high efficient and simple method of compressing moving pictures for mobile devices. According to the method, it is possible to efficiently compress moving pictures because the method determines whether motion happened or not through a motion estimation process using macro blocks without obtaining motion vectors, and provides various choices in selecting size of blocks to be determined on whether motion happened or not. Further, the method performs P-frame coding based on previously existing P-frame as reference frame, so that the method may omit other previous P-frame and does not need any extra buffering, when transmitting moving pictures over networks. Thus, it has advantages of easy network support and great adaptability to data loss.

WO 2005/053317 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.